

**Table A-17. Science, engineering, and health postdoctoral appointees in doctorate-granting institutions,
by detailed field and source of support, and number of postdoctoral appointees without
U.S. citizenship: 1997**

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Field	Total	Source of support				Number of post-doctoral appointees without U.S. citizenship	
		Federal			Non-Federal		
		Total	Fellowships	Trainee-ships			
Total, all surveyed fields	37,928	25,778	3,407	2,726	19,645	12,150	19,288
Total, science and engineering fields	26,806	19,417	2,198	1,196	16,023	7,389	14,221
Sciences, total	23,868	17,385	2,045	1,177	14,163	6,483	12,357
Physical sciences, total	5,836	4,565	378	39	4,148	1,271	3,386
Astronomy	317	292	37	2	253	25	114
Chemistry	3,692	2,768	293	33	2,442	924	2,225
Physics	1,728	1,410	48	4	1,358	318	994
Physical sciences, n.e.c.	99	95	0	0	95	4	53
Earth, atmos., & ocean sci., total	934	726	61	6	659	208	367
Atmospheric sciences	98	89	0	0	89	9	35
Geosciences	486	352	31	0	321	134	192
Oceanography	258	205	29	6	170	53	105
Earth, atmos., & ocean sci., n.e.c.	92	80	1	0	79	12	35
Mathematical sciences	303	197	48	2	147	106	168
Computer sciences	315	226	21	0	205	89	172
Agricultural sciences	692	383	23	1	359	309	341
Biological sciences, total	14,872	10,731	1,407	981	8,343	4,141	7,690
Anatomy	578	458	54	47	357	120	310
Biochemistry	2,532	1,975	224	101	1,650	557	1,367
Biology	1,537	1,142	204	61	877	395	734
Biometry/epidemiology	159	133	33	62	38	26	45
Biophysics	240	174	22	12	140	66	101
Botany	596	410	44	1	365	186	325
Cell biology	1,717	1,081	193	42	846	636	868
Ecology	131	87	14	0	73	44	32
Entomology/parasitology	216	151	4	3	144	65	101
Genetics	715	457	83	52	322	258	372
Microbio., immunology, & virology	2,005	1,441	165	144	1,132	564	1,052
Nutrition	209	137	7	11	119	72	120
Pathology	1,360	932	90	177	665	428	757
Pharmacology	1,322	1,010	131	137	742	312	721
Physiology	1,096	823	97	101	625	273	594
Zoology	108	72	9	2	61	36	34
Biosciences, n.e.c.	351	248	33	28	187	103	157
Psychology	560	396	65	114	217	164	128
Social sciences, total	356	161	42	34	85	195	105
Agricultural economics	50	32	0	0	32	18	23
Anthropology (cultural & social)	59	21	8	0	13	38	14
Economics (except agricultural)	19	0	0	0	0	19	4
Geography	12	6	0	0	6	6	8
Linguistics	19	5	0	3	2	14	4
Political science	31	4	1	0	3	27	8
Sociology	102	68	23	27	18	34	17
Sociology/anthropology	0	0	0	0	0	0	0
Social sciences, other	64	25	10	4	11	39	27
Engineering, total	2,938	2,032	153	19	1,860	906	1,864
Aerospace engineering	125	112	2	0	110	13	80
Agricultural engineering	58	24	0	0	24	34	38
Biomedical engineering	158	115	15	10	90	43	72
Chemical engineering	626	405	43	1	361	221	377
Civil engineering	234	130	6	0	124	104	148
Electrical engineering	505	346	36	0	310	159	343
Engineering science	115	103	10	0	93	12	55
Industrial eng./manufacturing eng.	27	16	1	0	15	11	15
Mechanical engineering	436	320	17	2	301	116	292
Metallurgical/materials eng.	464	320	20	3	297	144	322
Nuclear engineering	33	24	0	0	24	9	15
Engineering, other	157	117	3	3	111	40	107

See explanatory information, if any, and SOURCE at end of table.

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Field	Total	Source of support					Number of post-doctoral appointees without U.S. citizenship	
		Federal				Non-Federal		
		Total	Fellowships	Trainee-ships	Research grants			
Total, health fields	11,122	6,361	1,209	1,530	3,622	4,761	5,067	
Clinical fields	8,489	4,736	978	1,241	2,517	3,753	3,909	
Dental sciences	173	115	27	38	50	58	64	
Nursing	34	30	11	13	6	4	1	
Pharmaceutical sciences	483	313	22	8	283	170	288	
Preventive medicine/community health	348	248	28	59	161	100	112	
Speech pathology/audiology	36	33	1	8	24	3	10	
Veterinary sciences	217	108	14	12	82	109	75	
Other health fields	1,342	778	128	151	499	564	608	

NOTE: For 1991 and earlier years, permanent residents were included under "non-U.S. citizens." Beginning in 1992, permanent residents were included with U.S. citizens.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/SRS, Survey of Graduate Students and Postdoctorates in Science and Engineering